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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

SING, SIMON P

ART UNIT

PAPER NUMBER

2614

MAIL DATE

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04/29/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/522,824	Applicant(s) LOBIG, NORBERT	
	Examiner SIMON SING	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 January 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 and 17-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 and 17-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 12-15, 17, 18 and 20-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. US 6,434,139 in view of Goodman US 7,173,910 and further in view of Zhao US 7,046,683.

1.1 Regarding claims 12 and 22, Liu discloses an ISDN switch 12 and teaches a voice over IP (VoIP) gateway (adapter/network exchange) 22 for exchanging ISDN signaling information between a Primary Rate Interface (Access) (PRI or PRA) trunk 20 (T1 or E1 line) and a packet-oriented exchange such in the packet data network 10 (figure 1; column 4, lines 4-22).

Liu fails to explicitly teach that the connection between gateway 22 and Packet Data Network 10 is a Basic Rate Access (BRI or BRA) connection.

However, Goodman teaches a VoIP gateway 16a for converting (adapting) between ISDU PRI (PRA) trunk (T1 or E1) line 18a and ISDN BRI (BRA) 20a (figure 1; column 3, lines 1-20). In addition, Zhao discloses system in figure 1, and teaches a

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gateway 70 for connecting to a central office 24 via a trunk (T1 or E1) line 94, and to gateways 72 and 74 via bearer channel connections (basic rate access connection, see paragraph 0010 in background disclosure of the Applicant's Specification). Zhao also discloses that a gateway comprises an adapter (trunk board 152) and a packet network exchange (route switch 180) (figures 1-4; column 2, lines 20-40; column 3, lines 4-13; column 4, lines 50-56; column 5, lines 1-12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Liu reference with the teachings of Goodman and Zhao, so that the gateway 22 would have been adapted to process and transfer signaling information between a PRA connection a plurality of a BRA connections for the network 10. The motivation for such a modification was to clarify how the PRA of a T1 (24B+1D) or E1 (30B +1D) was transformed (adapted) to a plurality of BRA (2B+1D). (Note: As known in the art, a T1 (or E1) trunk carries 24 (or 30) bearer (B) channels and one signaling (D) channel, when a PRA connection is converted to BRA, signaling information from the single D channel in the PRA is de-multiplexed to a plurality of D-channels for BRA connections. See paragraph 0010 in the Specification, and Naor, et al. US 6,275,573, column 15, lines 5-8).

1.2 Regarding claims 13 and 23, the modified Liu reference teaches processing and transferring different ISDN connection types to and from the modified gateway 22 as stated above.

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1.3 Regarding claims 14, 15, 20 and 24, examiner takes an official notice that it was well known in the art that a gateway comprised a routing table for routing data, including signaling information, to different routers and destination gateways in the packet data network 10.

1.4 Regarding claims 17, 18 and 26, examiner takes an official notice that a gateway comprised a mapping table for call identifiers and plurality of channels.

1.5 Regarding claim 21, the modified Liu reference, Zhao teaches Media Gateway Control Protocol (MGCP) in packet data network 20 (figure 1).

1.6 Regarding claim 25, the gateway 22 of the modify Liu reference obviously having and a connection end (interface) for a BRA connection to a router and a connection end for a PRA connection to Switch 12.

1.7 Regarding claim 27, the gateway 22 obviously is an integrated Access Device (IAD).

1.8 Regarding claims 28 and 29, as stated above, a PRA connection (24B+1D or 30B+1D) is converted (adapted) to a plurality of user BRA connections each carries 2B+1D.

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2. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. US 6,434,139 in view of Goodman US 7,173,910 and further in view of Zhao US 7,046,683 and further in view of Rose et al. US 6,396,840.

The modified Liu reference teaches Media Gateway Control Protocol (MGCP) 20 (Zhao: figure 1), but fails to teach DSS1 protocol.

However, Rose teaches using DSS1 protocol in a gateway interface 112 (figures 5 and 6; column 9, lines 6-13).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the Liu reference with the teaching of Rose, so that DSS1 protocol would have used to between the ISDN connection in gateway 22 and a router in the packet data network 10. The motivation of such a modification was to clarify which protocol the gateway 22 was used to connect a router.

Response to Arguments

3. Applicant's arguments filed on 01/13/2010 have been fully considered but they are not persuasive.

a) Applicant argues that the prior art of Liu teaches a trunk line 20a carries PCM but not PRA of ISDN. Examiner respectfully disagrees, Liu teaches an ISDN switch 12 and a trunk line 18 (T1 or E1) is a Prime rate (PRA or PRI) connection (column 4, lines 4-12), and the trunk line 20 is also a T1 or E1 trunk (column 4, lines 16-21). In addition, Goodman teaches a VoIP gateway converts between PRA (PRI) and BRA (BRI) of ISDN.

b) Applicant argues that the cited prior art fails to teach adapting the PRA connection to a plurality of BRA connections as cited in the claims. Examiner also disagrees. As stated in the rejection above, a T1 (or E1) trunk carries 24 (or 30) bearer (B) channels and one signaling (D) channel, when a PRA connection is converted to BRA, signaling information from the single D channel in PRA is de-multiplexed to a plurality of D-channels for BRA connections.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Simon Sing whose telephone number is 571-272-7545. The examiner can normally be reached on Monday - Friday from 8:30 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang, can be reached at 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

/Simon Sing/

Primary Examiner, Art Unit 2614